Portable Air Conditioner with Heat Pump Technology

PH4-13R-01

Operating Instructions

3092402

© 2011 Soleus Air International

Thank you for choosing a Soleus Air Portable Air Conditioner with Heat Pump Technology. This owner's manual will provide you with valuable information necessary for the proper care and maintenance of your new product. Please take a few moments to thoroughly read the instructions and familiarize yourself with all the operational aspects of your new Soleus Air Portable Air Conditioner with Heat Pump technology.

For your own records, please attach a copy of your sales receipt to this manual. Also, write the store name/location, date purchased, and serial number below:

Store Name: _____

Location: _____

Date Purchased: _____

Serial Number (located on back of unit): _____

IMPORTANT INSTRUCTIONS

Before installing and using your portable air conditioner, please read this owner's manual carefully. Store this manual in a safe place for future reference.

1) Always place the unit on a level surface.
2) Never use or store gasoline or other flammable vapor or liquid near this unit unless instructed by this manual.
3) Maintain at least 10 inches (25 cm) clearance space around this unit. Do not block or cover air inlet or outlet grilles.
4) The unit must be connected to a correctly grounded power supply.
5) Do not start or stop the unit by inserting or pulling out the power plug.
6) Do not use an adapter plug or extension cord.
7) Do not use the unit in the immediate surroundings of a bath, a shower or a swimming pool.
8) Do not insert anything into the air outlet. Do not obstruct air inlet or outlet grills unless instructed by this manual.
9) Do not let children play near this unit.
10) Always inspect the cord for signs of damage before use. If the power cord is damaged, it must be replaced by the manufacturer or a qualified service technician.
11) When cleaning the unit, always turn the unit off and unplug the power cord.
12) When the unit is not in use, always remove the venting kit from window.
13) Do Not Mix Old And New Batteries. Do Not Mix Alkaline, Standard (Carbon - Zinc), Or Rechargeable (Nickel - Cadmium) Batteries.

PACKAGE CONTENTS

Portable Air Conditioner
Exhaust Hoses (2)
Hose Adapters (2)
Window Kit Adapter (2)
Air Intake and Outlet Covers (2)
Remote Control
AAA Batteries (2)
Window Kit - 4 Sliding Panels (1 dual hose panel, 1 single hose panel, 2 extension panels)
Air Intake Vent for Single Hose Installation (Additional Accessory) (1)
Owner's Manual

SPECIFICATIONS

- The cooling capacity is measured at an ambient temperature of DB 86 °F, WB 78 °F.
- Noise level is measured at a distance of 3.28 ft away from the front of the unit, when the unit is in cooling mode.
- Power consumption is measured when the fan runs at the highest speed setting.
- These specifications are for reference only. For actual data, please refer to the rating label on the back of the unit.
- If the environment temperature is higher than the max operating temperature or lower than the minimum operating temperature, the air conditioner may not work properly.

MODEL		PH4-13R-01
COOLING CAPACITY		13,000 BTU/H
HEATING CAPACITY		12,500 BTU/H
DEHUMIDIFIER CAPACITY		60 pts/Day
POWER	COOLING	1390W
	HEATING	1180W
AIR FLOW VOLUME		225 CFM
POWER SOURCE		115 V~ 60 HZ 11 AND / 12.5 AMP HEATING / COOLING
SOUND PRESSURE LEVEL		50 dB(A) at the lowest fan speed
NET WEIGHT		88 Lbs
OPERATING TEMP	COOLING	60.8°F-107.6°F
	HEATING	23°F-89.6°F
PRODUCT DIMENSIONS		19" W ×18.5" D ×32.25" H
REFRIGERANT		R-410A

LCDI POWER CORD AND PLUG

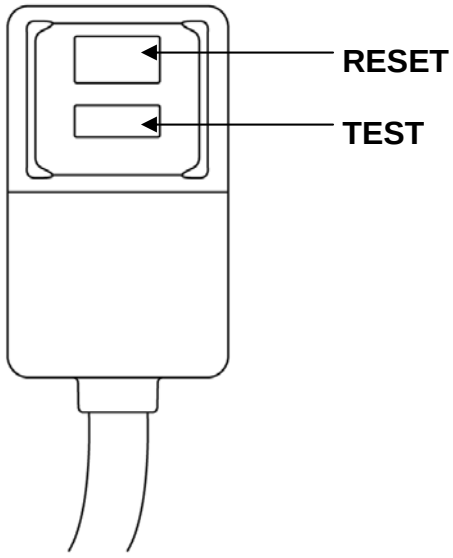
This air conditioner is equipped with an LCDI (Leakage Current Detection and Interruption) power cord and plug as required by US National Electric Code 440.65. This cord consists of a length of shielded flexible cord with no termination on the load side and a LCDI attachment plug on the line side.

The LCDI power cord and plug will remove the supply source via electrical disconnect (circuit trip) if the nominal current leakage between the cord shield and either load conductor exceeds a predetermined value. The cord will remain de-energized until the devise has been manually reset. This is intended to reduce the risk of a fire in the power cord or combustible materials nearby. The cord shields are not grounded and they must be considered a shock hazards if exposed. The cord shield must not be connected to ground or to any exposed metal.

The test and reset buttons on the LCDI Plug are used to check if the plug is functioning properly. To test:

1. Plug power cord into wall outlet
2. Press TEST Button, circuit should trip, cutting power to the air conditioner
3. Press RESET button for use

If test button is pressed and unit can still be turned on, current leakage has been detected. Do not use the air conditioner or attempt to reset the LCDI Plug. Contact Soleus Air Customer Service for troubleshooting recommendations.



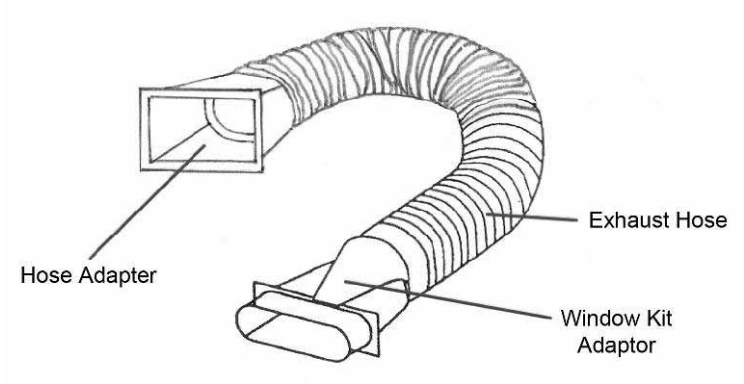
WARNING:

1. DO NOT press the TEST button while the air conditioner is operating.
2. The TEST and RESET buttons should not be used as “ ON ” and “ OFF ” switches.
3. The cord and plug are not intended to offer protection to externally connected loads or supply circuits.
4. The cord and plug are intended for indoor use only.

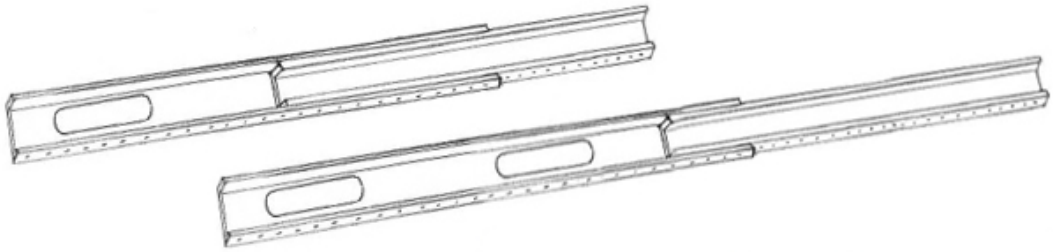
PARTS & ASSEMBLY

PARTS

EXHAUST HOSES



WINDOW KIT



ASSEMBLY & INSTALLATION

INSTALLATION

When the unit is operating as an air conditioner, heater, or dehumidifier, the unit draws in fresh outdoor air and exhausts hot air (in AC or dehumidifier mode) or cool air (in Heat mode) out of the room to complete the air exchange. When the unit is operating in fan mode, no outdoor air exchange takes place. The window kit and exhaust hose do not need to be installed when the unit is used as a fan.

NOTE: The supplied window kit can be installed in sliding windows and sliding glass doors up to 8 ft. long (approximate length).

MOUNTING THE EXHAUST HOSES

- Choose a suitable location, near a grounded electrical outlet and suitable window or door. Remove packaging and locate components.
- Extend both ends of the exhaust hoses approximately 6 inches.
- Screw the window kit adapter onto one end of the exhaust hose clockwise. Screw the hose adapter onto the other end of the exhaust hose clockwise. Repeat on the other exhaust hose.
- Remove outlet covers from the back of the unit by screwing them counter-clockwise, then lifting up.
- Mount the exhaust hoses onto the back of the unit by locking the hose adapters into place.

DUAL HOSE WINDOW KIT INSTALLATION - To quickly and efficiently cool a large area.

NOTE: The air conditioner in the images below may differ from the air conditioner you purchased. These images are for your reference and show how to connect any Soleus Air dual hose air conditioner.

SOLEUSAIR

Innovative products for a cleaner, more comfortable world.

Installation of the Venting Kit

FOR DUAL HOSE PORTABLE AIR CONDITIONERS

The venting kit must be installed in order for the unit to work correctly in the air conditioning, heating or dehumidifying mode. The venting kit does not need to be used while the unit is fanning.

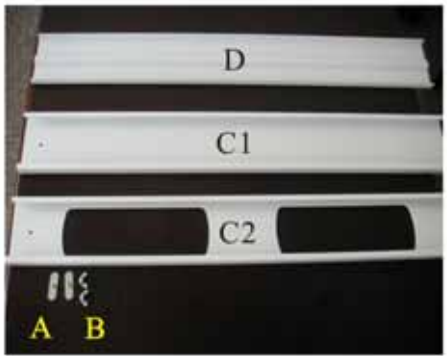
The window kit has been designed to fit into most vertical and horizontal window openings. The window kit can also be used in a sliding door.

1. Choose a suitable location, near a grounded electrical outlet and a suitable window or door. Remove packaging and locate components. (figure a)
2. Remove the outlet covers from the back of the unit by screwing them counter-clockwise, then lifting up. (figure b)
3. Pull out one end of the exhaust hose, then screw on the adapter clockwise. Repeat on other exhaust hose. (figure c)
4. Pull out the opposite end of the exhaust hose, then screw on the window kit adapter clockwise. Repeat on other exhaust hose. (figure d)
5. Mount the exhaust hoses onto the back of the unit. (figure e)
6. Open the window or door and adjust the length of the window kit to fit the opening. (figure f) If necessary, mark the kit and cut down one end to properly fit the opening. (figures g & h)
7. Attach the window kit adapters to the window kit. (figure i) Close the window or door tightly. (figure j) Your Portable Air Conditioner is now ready to cool!

NOTE: When using the venting system, keep the exhaust hose as short and straight as possible. The exhaust hose can be shortened, but it is not recommended to increase the length of the exhaust hose. Do not use an extension cord with your portable air conditioner.

When using to a sliding door, it is recommend to make the air outlet up to air inlet.

WINDOW KIT ASSEMBLY

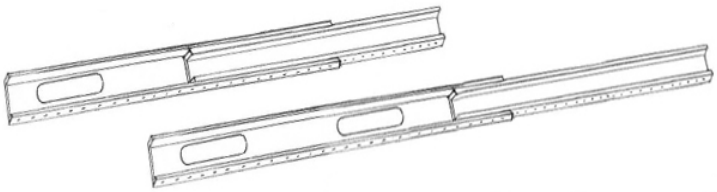


1. Parts:
A) 2 Track Screws
B) 2 Wing Nuts
C1 & C2) 2 Hose Panels, one with Two Exhaust Hose Openings
D) 1 Sliding Track Panel

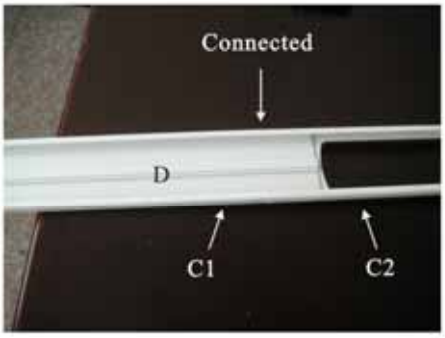
2. Assembly:
First, take the Track Screws (A) and screw one into each of the small holes found on the Hose Panels (C1 & C2).

3. Next, take the Wing Nuts (B) and tighten them around each of the Track Screws (A). Do not tighten the Wing Nuts (B) all the way; make sure they are somewhat loose.

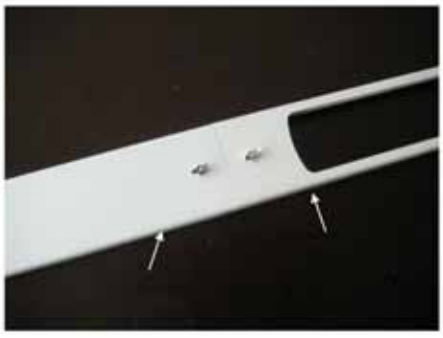
4. Now, place the Sliding Track Panel (D) over the Track Screw (A) on Hose Panel (C1).



5. Next, take the other Hose Panel (C2) and connect it to Hose Panel (C1) by placing the Sliding Track Panel (D) over the Track Screw (A) on Hose Panel (C2).



6. The Hose Panels (C1 &C2) should now be connected using the Sliding Track Panel (D).



7. To complete the assembly, tighten the wing Nuts (B) installed earlier. The finished Window Kit should resemble the image seen below.

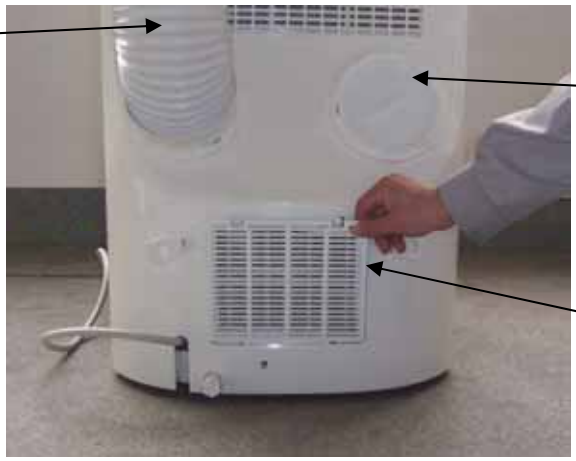
SINGLE HOSE EXHAUST & WINDOW KIT INSTALLATION

When you want quick spot cooling, install the PH4-13R-01 using the single hose window kit installation.

For Single Hose Installation

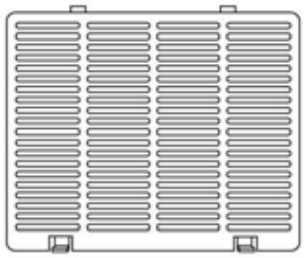
Install only the left exhaust hose over the circular air outlet (this outlet will be on the left side of the unit when you are facing the back of the unit). Cover the right circular air intake using the exhaust intake cover. After installing the hose remove the square air intake cover on the back of the unit and install the square air intake vent with removable/washable filter.

Exhaust Hose installed onto circular air outlet on left side



Exhaust cover installed over circular air intake on right side

Air Intake Cover



Air Intake Vent*

***Additional Accessory**

For Single Hose Window Kit Installation

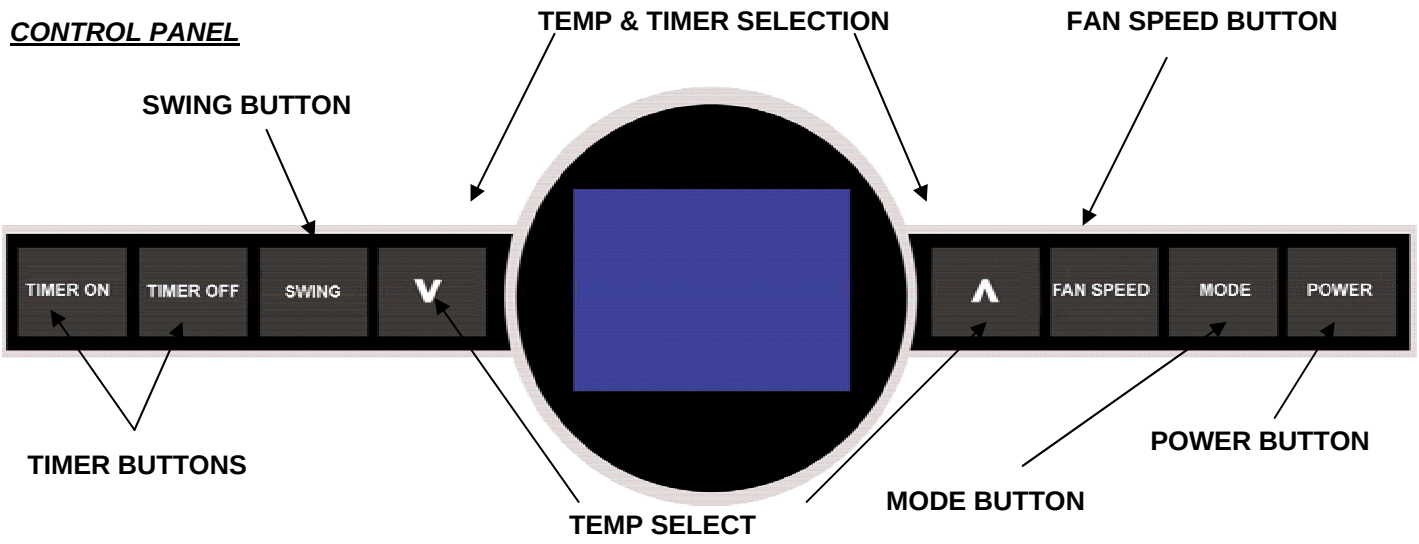
To install the window kit, follow the same directions on page 6 for dual hose installation, but instead of using the dual hose window kit panel, use the single hose panel pictured below.

Single Hose Window Kit Panel

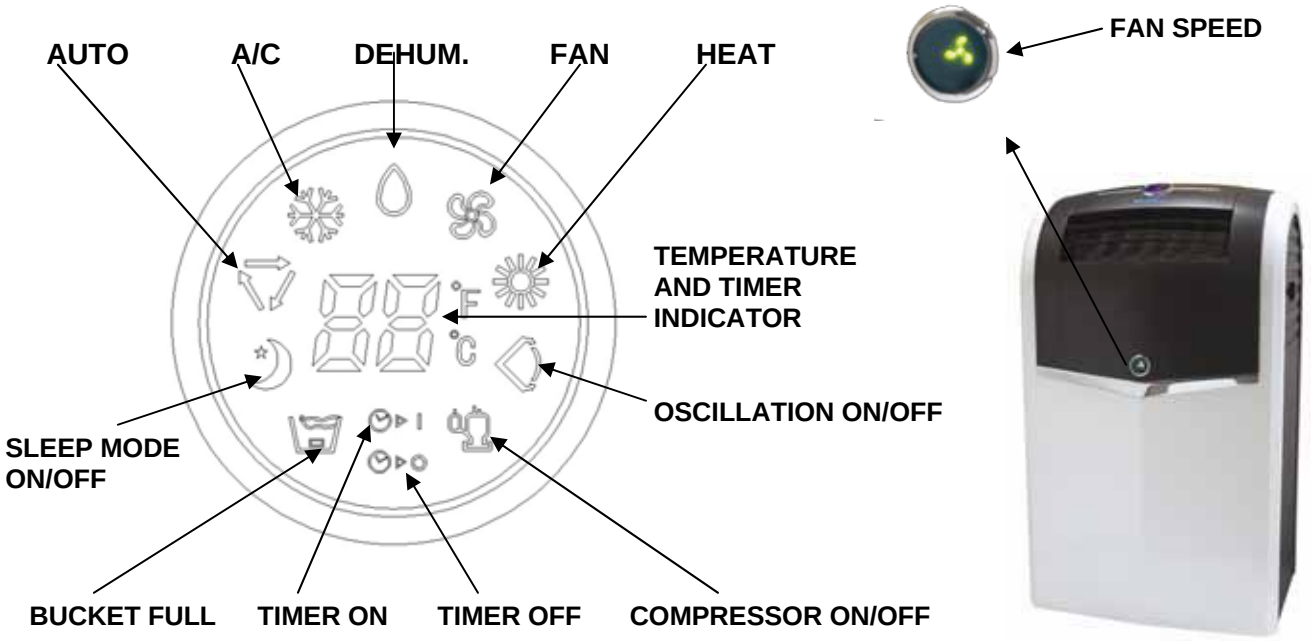
CONTROL PANEL, DISPLAY, & OPERATING INSTRUCTIONS

CONTROL PANEL & MULTI-COLOR DISPLAY

CONTROL PANEL



MULTI-COLOR DISPLAY



OPERATING INSTRUCTIONS

CONTROL PANEL BUTTONS (Refer to the images on page 9)

1) **Power On and Off** - Press the **POWER** button once to manually turn the unit on. Press the **POWER** button once more to turn the unit off.

2) **Mode Selection** - Press the **MODE** Button repeatedly to cycle between the different modes: Auto mode, Air Conditioner, Dehumidifier, Fan only, and Heater.

3) **Fan Speed Control** - Press the **FAN SPEED** Button to cycle through the different fan speeds: **High, Medium, and low**. The fan speed can be visually distinguished by the speed of the fan icon on the front panel. There is an additional **auto** speed setting that is enabled in only heating and cooling modes. This speed is next setting after low when pressing the speed control button. The speeds will cycle through in this order: **High, Medium, Low, Auto**. Each change in speed will be associated with a "beep" sound from the unit.

4) **Temperature** - Select the desired temperature by pressing either ▼ or ▲ key when using the unit in cooling or heating mode. The temperature indicator flashes to display the desired temperature setting. After the temperature is set, the unit will display this temperature setting until it is changed by the user. The Multi-color display shows temperature in Celsius or Fahrenheit. Pressing the ▼and ▲ buttons simultaneously will change the temperature select between °F and °C.

5) **Timer** - To program the timer, press the **TIMER ON** button until the display shows a flashing " ". Press the ▲ or ▼ buttons to change the clock to the desired time for the unit to automatically turn on.

   Press the **TIMER OFF** button and the display on the unit will flash " ". Press the ▲ or ▼ buttons to change the clock to the desired time for the unit to automatically turn off. The **TIMER OFF** indicator will flash for 3 seconds to activate the times you programmed.

NOTE: The timer will also remember your settings when it is set. If you set the timer while in Air Conditioning mode, the timer will automatically turn the unit on and off in air conditioning mode according to the desired programmed times. The timer will also remember the temperature settings, fan speed, and oscillation setting. The timer works when the unit is in Air Conditioner mode, Heating mode, Dehumidifier mode, Fan mode, and Auto mode

OPERATING THE UNIT USING THE CONTROL PANEL

Air Conditioner Mode

1) Install the exhaust hoses and window kit properly (see pages 6, 7 & 8).
2) Plug the Power Cord into an electrical outlet.
3) Turn on the unit by pressing the **POWER** button on the control panel.
4) Press the Mode button until the " " icon appears on the Multi-color display
5) Press the ▲ or ▼ buttons until the desired room temperature appears on the control panel display. The temperature ranges from 61°F - 88°F (16°C - 31°C).
6) Select the desired fan speed by pressing the **FAN SPEED** button.

NOTE: During hot days, the unit will cool the room most efficiently by setting the temperature at the lowest setting and the fan speed on high. Reducing the length of the exhaust duct, insulating the exhaust hose and window kit, and keeping direct sunlight to a minimum will also improve the cooling efficiency.

> **NOTE**: **When the unit is running on cooling mode, the exhaust hoses are required and must be vented outside using the supplied window kit.**

Dehumidifier Mode

1) Install the exhaust hoses and window kit properly (see pages 6, 7 & 8).
2) Plug the Power Cord into an electrical outlet.
3) Turn on the unit by pressing the **POWER** Button on the control panel.
4) Press the **MODE** button until the " " appears on the control panel display.

NOTE: The unit operates at low fan speed during dehumidifier mode. The unit cools room slightly during the dehumidification. Keep the windows and doors closed to aid the effectiveness of the unit in removing the moisture from the room.

> **NOTE**: **When the unit is running on dehumidifier mode, the exhaust hoses are required and must be vented outside using the supplied window kit.**

NOTE: The unit will not perform in dehumidifier mode when the room temperature is lower than 61°F .

Fan Mode

1) Plug the Power Cord into an electrical outlet.
2) Turn on the unit by pressing the **POWER** button on the control panel.
3) Press the **MODE** button until the " " icon appears on the control panel display.
4) Select the fan speed by pressing the **FAN SPEED** button.
5) To circulate more air, press the **SWING** button on the remote control. The louvers will oscillate which moves the louvers up and down to increase air circulation.

NOTE: It is not necessary for the exhaust hoses and window kit to be installed to operate the unit in fan mode.

Heating Mode

1) Install the exhaust hoses and window kit properly (see pages 6, 7 & 8).
2) Plug the Power Cord into an electrical outlet.
3) Turn on the unit by pressing the **POWER** button on the control panel.
4) Press the **MODE** button until the " " icon appears on the control panel display.
5) Press the ▼or ▲ buttons until the desired room temperature appears on the control panel display. The temperature ranges from 61°F - 88 °F (16 °C - 31 °C).
6) Select the fan speed by pressing the **FAN SPEED** button. It is recommended to set the fan speed to low.

NOTE: When heat mode is selected, the unit will shut down for 3-5 minutes, then start in heating mode.

> **NOTE**: **When the unit is running on heating mode, the exhaust hoses are required and must be vented outside using the supplied window kit.**

Auto Mode

1) Install the exhaust hoses and window kit properly (see pages 6, 7 & 8).
2) Plug the Power Cord into an electrical outlet.
3) Turn on the unit by pressing the **POWER** button on the control panel.
4) Press the **MODE** button until the " " icon appears on the control panel display. Select the fan speed by pressing the **FAN SPEED** button.

NOTE: During AUTO mode, the unit operates in **Heating** mode when the room temperature is below 68 °F, **Dehumidifier** mode when the room temperature is between 68 °F to 80 °F. And **Air Conditioner** mode when the room temperature is above 80 °F.

Sleep Mode (This mode can only be selected when using the Remote control)

1) To set Sleep mode, make sure the unit is in Air Conditioner mode or Heating mode.
2) Press the **SLEEP** Button on the remote control. The " " icon appears on the control panel display.
3) When in **SLEEP** mode, the fan will run on low to keep fan noise at a minimum.
4) When in Air Conditioner mode, the temperature setting will gradually increase to 2 °F above the original set temperature for 6 hours. After 6 hours the temperature setting will return to the set temperature.
5) When in Heating mode, the temperature setting will gradually decrease to 2 °F below the original set temperature for 6 hours. After 6 hours, the temperature setting will return to the set temperature.
6) When in Dehumidifier mode, the temperature will not change when Sleep mode is selected.

Compressor Indicator

The " " icon will light up on the control panel display when the compressor turns on. The " " icon will turn off when the compressor shuts off.

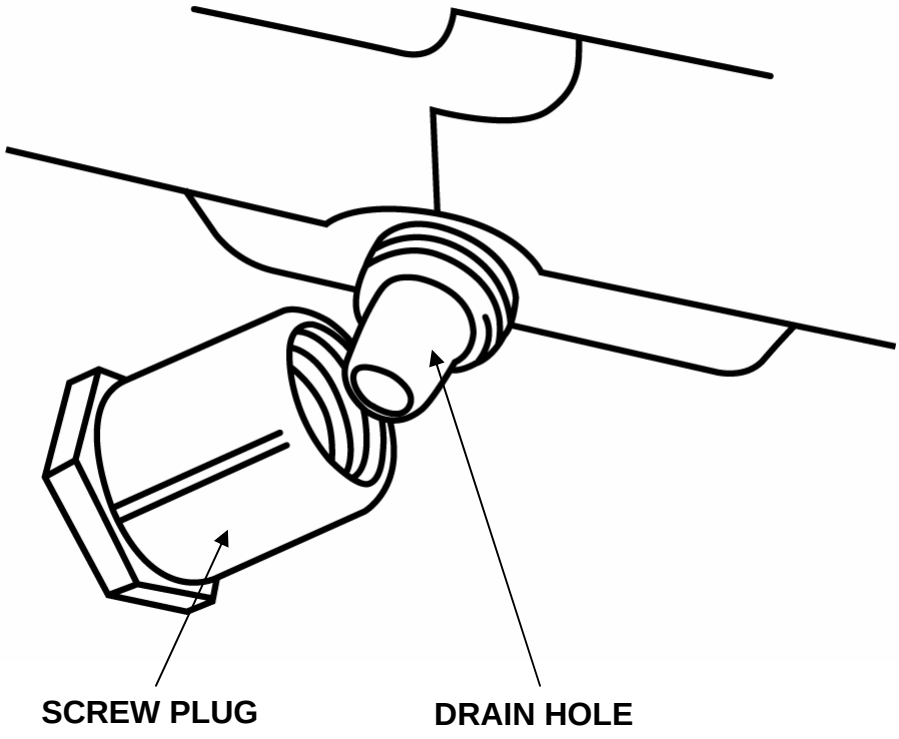
Emergency Condensate Holding Tank

When the room temperature is low and the indoor humidity is high, the air conditioner may not be able to evaporate some of the moisture fast enough. When this happens, the water will accumulate in an emergency condensate tank inside the unit. Once the emergency condensate tank is full, the unit will automatically shut off and the " " will appear on the control panel display. To empty the condensate tank, unscrew the screw plug at the bottom back of the unit. You will need a small pan, approximately 1" high to catch the water coming out of the condensate tank. Once the condensate tank is drained, the unit will begin working within a few minutes. The emergency condensate tank holds approximately 1.5 Liters of water. Another option is to purchase a small hose from a hardware store that can fit around the 5/8" drain plug on the back of the unit and drain the unit into a gravity drain or larger pan for continuous drainage.

To resume operation quickly, empty the water container according to the following steps:

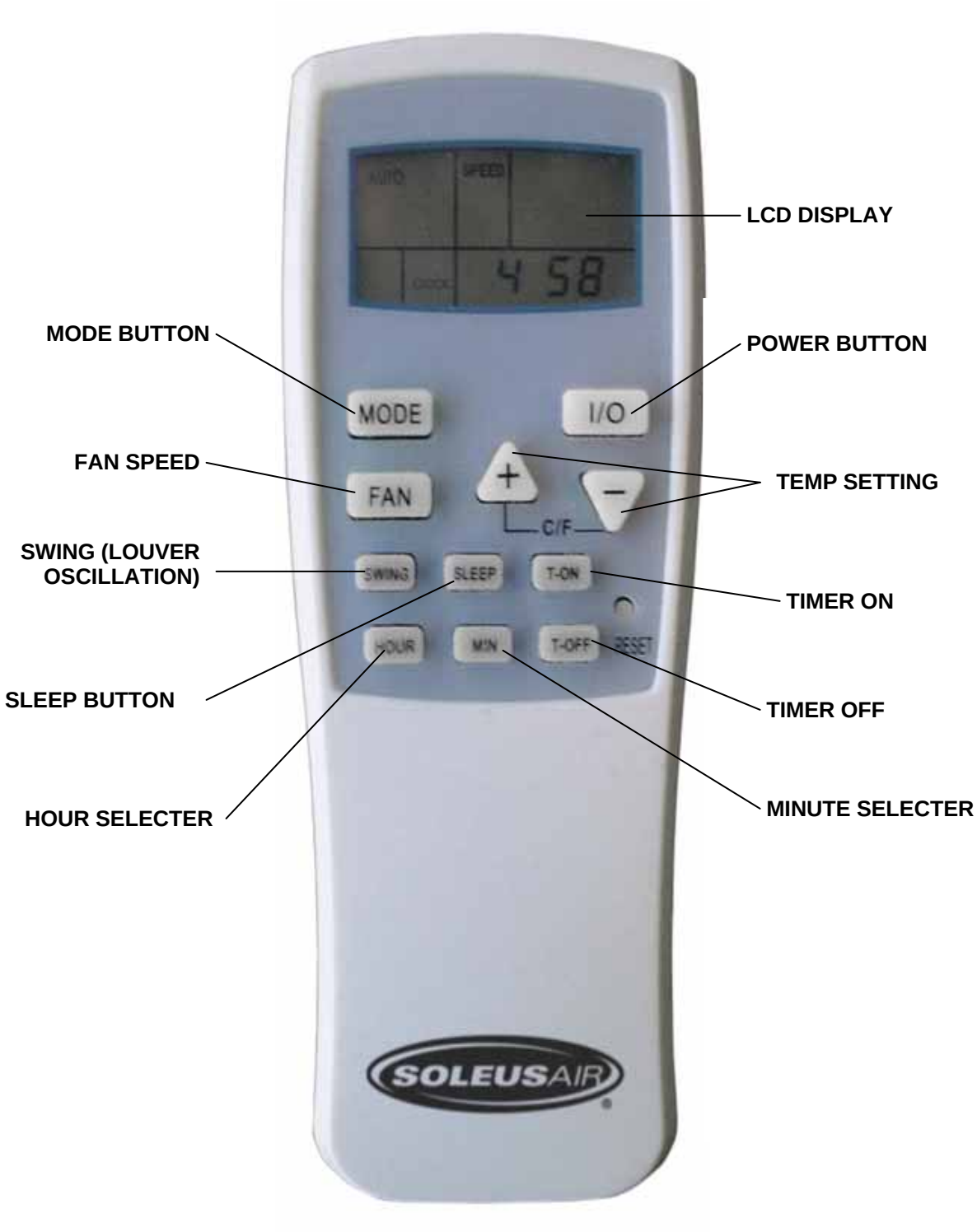
1. Turn the unit off. **Do not move the unit when the water container is full**.
2. Place the drain pan accessory under the drainage port at the back of the unit.
3. Remove the screw plug from the drain hole. The condensate water will drain out automatically. When the drain pan is full, screw the screw plug back onto the drainage hole to stop the water flow. Empty the drain pan. Repeat until all the water is emptied.

Once the water container has been emptied, screw the plug back onto the drain hole. Do not allow the water to drip continuously into the drain pan, as it might easily overflow.



OPERATING THE UNIT USING THE REMOTE CONTROL

REMOTE CONTROL



REMOTE CONTROL OPERATING INSTRUCTIONS

1) **Power On and Off** - If the unit is already on, press the **POWER (I/O)** button on the remote while pointing the remote away from the unit. This will turn the remote on. If the unit is off, now press the **POWER (I/O)** button once to manually turn the unit on. Press the Power button once more to turn the unit off. When you press the **POWER** button the upper right square on the remote control LCD Display will light up. When in Air Conditioner, Heating, and Auto mode, the selected temperature will appear on the remote control display. When the unit is in Fan mode and Dehumidifier mode you will see the "- -" icon instead of the set temperature. This shows that temperature selection is not available when the unit is in Fan or Dehumidifier mode.

2) **Mode Selection** - Press the **MODE** Button repeatedly to cycle between the different modes: Auto, Air Conditioner, Dehumidifier, Fan only, and Heater mode. The upper left square on the Remote control display will light up showing which mode is selected. In Air Conditioner mode the display will show "COOL", in Heating mode the display will show "HEAT", in Dehumidifier mode the display will show "DRY", in Fan mode the display will show "FAN", and in Auto mode the display will show "AUTO".

3) **Fan Speed** - Press the **FAN** speed button to cycle through high, medium, and low fan speeds. The display on the remote control will show High, Medium, Low, under the "SPEED" label on the remote control LCD display. There is an additional **auto** speed setting that is enabled in only heating and cooling modes. This speed is next setting after low when pressing the **FAN** speed button on the remote control. The speeds will cycle through in this order: **High, Medium, Low, Auto**. Each change in speed will be associated with a "beep" sound from the unit. The remote control will not display "AUTO" under the speed label. Once Auto fan speed is selected the unit will beep and there will not be a fan speed displayed on the remote control.

4) **Temperature Setting** - When the unit is in Air Conditioner or Heating mode you can select your desired temperature. Press the ▲ or ▼ to select your desired temperature setting. The temperature on the LCD display on the remote control will increase or decrease accordingly. Pressing the ▼and ▲ buttons simultaneously will change the temperature select between °F and °C.

5) **SLEEP MODE** - See "SLEEP MODE" on page 12.

6) **SWING** - To turn on the oscillation, press the **SWING** button on the remote control. Once you press **SWING,** the louvers on the unit will oscillate up and down. The bottom left square of the remote control display will show the "◄►" icon when oscillation (SWING) is selected.

7) **TIMER** - To program the timer, first press the **T-ON** button. Once **T-ON** is pressed the auto-on timer will blink in the bottom right rectangle of the remote control display. Press the **MIN** and **HOUR** buttons to change the clock to the desired time for the unit to automatically turn on. The minutes will increase by 10 with each press of the **MIN** button and the hours will increase by 1 with each press of the **HOUR** button. Press the **T-OFF** button and the remote control display will flash the desired auto-off timer. Press the **MIN** and **HOUR** buttons to change the clock to the desired time for the unit to automatically turn off. The timer is set when the auto-off time stops flashing and the words "ON" and "OFF" are displayed next to the time.

8) **CLOCK** - To set the clock on the remote control, hold down either the **MIN** or **HOUR** button until the displayed time flashes on the remote control display. Change the minutes by pressing the **MIN** button and change the hours by pressing the **HOUR** button.

MAINTENANCE

Note: Make sure power is off and the power cord is not plugged into an electrical outlet prior to performing any maintenance on the unit.

Clean or replace filter - If the air filter is blocked with a dust, the airflow volume may reduce. It is recommended to clean the filter once every two weeks or as needed.

1) Remove the filter from the filter compartment on the back of the unit.
2) Wash the air filter by immersing it gently into warm water with a neutral detergent. Rinse the filter and dry it thoroughly out of sunlight.
3) Slide the filter back into the filter compartment after it is thoroughly dried.
4) If the filter is torn or unusable, order a new filter by calling the customer service number on the warranty page of this manual.

Clean the unit Housing

1) Keep the unit from being exposed directly to the sun to prevent color fading.
2) Clean the surface with a damp cloth and dry it with a soft towel.

Storing the Unit for an Extended Period of Time or Transporting the unit

1) Empty any excess water by unplugging the water drainage stop in the back of the unit (located at the bottom).
2) Unplug the unit.
3) The unit should be stored in a cool dry place.

DISCLAIMER

ALL INFORMATION AND THE TECHNICAL SPECIFICATIONS PRESENTED IN THIS USER'S MANUAL ARE THE PRESENTATION OF THE MANUFACTURER. SOLEUS INTERNATIONAL HAS NOT CONDUCTED INDEPENDENT TEST TO THE INFORMATION AND THE SPECIFICATIONS PRESENTED HEREWITHIN.

WARRANTY

One Year Limited Warranty

Soleus International Inc. warrants the accompanying Soleus Air Portable Air Conditioner with Heat Pump to be free of defects in material and workmanship for the applications specified in its operation instruction for a period of ONE (1) year from the date of original retail purchase in the United States.

If the unit exhibits a defect in normal use, Soleus International Inc. will, at its option, either repair or replace it, free of charge within a reasonable time after the unit is returned during the warranty period.

As a condition to any warranty service obligation, the consumer must present this Warranty Certificate along with a copy of the original purchase invoice.

THIS WARRANTY DOES NOT COVER:

- Damage, accidental or otherwise, to the unit while in the possession of a consumer not caused by a defect in material or workmanship.
- Damage caused by consumer misuse, tampering, or failure to follow the care and special handling provisions in the instructions.
- Damage to the finish of the case, or other appearance parts caused by wear.
- Damage caused by repairs or alterations of the unit by anyone other than those authorized by Soleus International Inc.
- Freight and Insurance cost for the warranty service.

ALL WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANT ABILITY ARE LIMITED TO ONE-YEAR DURATION OF THIS EXPRESS LIMITED WARRANTY**. SOLEUS INTERNATIONAL INC.** DISCLAIMS ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES AND IN NO EVENT SHALL SOLEUS INTERNATIONAL INC'S LIABILITY EXCEED THE RETAIL VALUE OF THE UNIT FOR BREACH OF ANY WRITTEN OR IMPLIED WARRANTY WITH RESPECT TO THIS UNIT.

This warranty covers only new products purchased from our authorized dealers or retailers. It does not cover used, salvaged, or refurbished products.

As some states do not allow the limitation or exclusion of incidental or consequential damages, or do not allow limitation on implied warranties, the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

For Technical Support and Warranty Service
Please Call (888) 876-5387

Or Write To:
Soleus International Inc.
20035 E. Walnut Dr. N.
City of Industry, CA 91789
www.soleusair.com